



C I N C I N N A T I
STREETCAR™

MONTHLY REPORT

December 2015

REFERENCES

- For background information on the Cincinnati Streetcar, please go to <http://www.cincinnati-oh.gov/streetcar/>
- For previous months' reports, please go to <http://www.cincinnati-oh.gov/streetcar/documents-references/>
- For an archive of weekly progress updates, please go to <http://www.cincinnati-oh.gov/streetcar/news/>



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ACRONYMS

CFD	Cincinnati Fire Department
CPD	Cincinnati Police Department
CBD	Central Business District
DBE	Disadvantaged Business Enterprises
FAI	First Article Inspection
FLSSC	Fire Life Safety and Security Committee
FTA	Federal Transit Administration
MOF	Maintenance And Operations Facility
MPD	Messer, Prus, Delta Rail Joint Venture
OCS	Overhead Contact System
ODOT	Ohio Department of Transportation
OUPS	Ohio Utility Protection Service
PMOC	Project Management Oversight Consultant (FTA's)
SORTA	Southwest Ohio Regional Transit Authority
SSRC	Safety and Security Review Committee
TANK	Transit Authority of Northern Kentucky
TPSS	Traction Power Substation
TVM	Ticket Vending Machine
WTM	Wheel Truing Machine

1.0. PROGRESS SUMMARY



Streetcar #1176 arriving at Stop #1, The Banks, on Second St. during a live wire test

1.0. PROGRESS SUMMARY

- Civil construction punch list work and testing continued throughout Dec
- Cincinnati Streetcar #1176 (Unit #2) arrived in Cincinnati on November 24 and began testing in December
- Integrated testing activities took place throughout December on both streetcars
 - Post delivery inspection
 - Live wire test
 - TPSS tests
 - Noise & Vibration test
 - Ride & Comfort test
- Remaining vehicle production continues at CAF Elmira, NY plant
 - Unit #3 – final inspections
 - Units #4, 5 – assembly underway



1.1. PROGRESS SUMMARY


- MPD Construction Contract Milestone Dates:

Milestone	Original Contract Dates (Bid Docs)	Change Order #1	Change Order #5
OTR Loop & MOF Substantial Completion	June 15, 2014		
3000 ft. Test Track & MOF Substantial Completion	July 15, 2014	March 1, 2015	March 21, 2015
Substantial Completion of OTR Loop	March 1, 2015	June 29, 2015	July 19, 2015
Substantial Completion of All Work	October 1, 2015	March 15, 2016	April 4, 2016
Revenue Service	April 2, 2016	September 15, 2016	September 15, 2016

- CAF Contract Modification #2 (executed on August 1):

Milestone	Contractual Late Date
Contractual Delivery of 1st Car	September 17, 2015
Contractual Delivery of 2nd Car	October 17, 2015
Contractual Delivery of 3rd Car	November 17, 2015
Contractual Delivery of 4th Car	November 17, 2015
Contractual Delivery of 5th Car	December 17, 2015

2.1. DECEMBER 2015 CIVIL CONSTRUCTION SCHEDULE SUMMARY

ID	Description	Original Duration	Start	Finish	Area	2016											
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Elm/ 12th to Henry																	
1	MOT/Road Removal/Trackwork Start	1	09/16/13A	09/16/13A	Elm/ 12th to Henry												
2	Track/Road Complete	1	01/09/14A	01/09/14A	Elm/ 12th to Henry												
Race/ Elder to 12th																	
3	MOT/Road Removal/Trackwork Start	1	12/26/13A	12/26/13A	Race/ Elder to 12th												
4	Track/Road Complete	1	04/01/14A	04/01/14A	Race/ Elder to 12th												
Central/ Race to Main																	
5	MOT/Road Removal/Trackwork Start	1	03/24/14A	03/24/14A	Central/ Race to Main												
6	Track/Road Complete	1	06/18/14A	06/18/14A	Central/ Race to Main												
12th/ Main to Elm																	
7	MOT/Road Removal/Trackwork Start	1	04/21/14A	04/21/14A	12th/ Main to Elm												
8	Track/Road Complete	1	07/17/14A	07/17/14A	12th/ Main to Elm												
OTR Turns and Diamond																	
11	MOT/Road Removal/Trackwork Start	1	06/30/14A	06/30/14A	OTR Turns and Diamond												
12	Track/Road Complete	1	08/13/14A	08/13/14A	OTR Turns and Diamond												
MOF Area Turn Outs																	
9	MOT/Road Removal/Trackwork Start	1	08/28/14A	08/28/14A	MOF Area Turn Outs												
10	Track/Road Complete	1	12/31/14A	12/31/14A	MOF Area Turn Outs												
Walnut/Central to 2nd																	
13	MOT/Road Removal/Trackwork Start	1	08/11/14A	08/11/14A	Walnut/Central to 2nd												
14	Track/Road Complete	1	05/18/15A	05/18/15A	Walnut/Central to 2nd												
2nd Street and Bridges																	
15	MOT/Road Removal/Trackwork Start	1	09/02/14A	09/02/14A	2nd Street and Bridges												
16	Track/Road Complete	1	11/05/15A	11/05/15A	2nd Street and Bridges Complete												
Main/2nd to 12th																	
17	MOT/Road Removal/Trackwork Start	1	03/30/15A	05/01/15A	Main/2nd to 12th												
18	Track/Road Complete	1	09/24/15A	09/24/15A	Main/2nd to 12th												
OTR																	
20	3000' Test Track	0		03/20/15A	OTR												
25	MOF Complete	0		03/20/15A	OTR												
30	Power and Stations - OTR	0		07/17/15A	OTR												
CBD																	
50	Power, Stations, Paving, and Closeout - CBD	0		04/04/16	CBD												
60	Pay Service Available	0		09/30/16	CBD												
Start Date: 01/01/13 Finish Date: 09/30/16 Data Date: 01/01/16 Run Date: 02/01/16						Cincinnati Streetcar Contract #121C009060 January 1, 2016 - Project Schedule											
Streetcar 2015_01-16.ppx						Page 1A											

CONSTRUCTION STATUS

Track:

- Complete



OCS:

- Complete



Paving:

- Complete



Stops:

- Complete



2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Verifying construction tolerances for gap between streetcar and platform for newly arrived Streetcar 1176

2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Preparing the short circuit test for the TPSS breakers

2.2 TRACKWORK & ASSOCIATED CONSTRUCTION



Inside TPSS #1 preparing the short circuit breaker test

2.3 MAINTENANCE & OPERATIONS FACILITY



Streetcars #1175 and #1176 at the MOF after testing

2.4 UTILITY WORK

Utility work, including street and sidewalk is in the closeout phase:

- Duke Electric 100% complete
- Duke Gas 100% complete
- Cincinnati Bell 100% complete
- Water 100% complete
- Level 3 100% complete
- Chilled Water 100% complete
- Time Warner Cable 100% complete
- MSD (Sewer) 99% complete



2.5. COMMUNITY INVOLVEMENT



Paul Grether, METRO/SORTA's Rail Services Director, provides an operations and maintenance update the Monthly Streetcar Communications and Stakeholders Meeting

2.5. COMMUNITY INVOLVEMENT

- Continuing established involvement strategy:
 - Streetcar Hotline: (513) 352-3333
 - Monthly Construction Stakeholders Meeting
 - Email Weekly updates will transition to METRO/SORTA
 - Media alerts for all closures or other work disrupting pedestrian or vehicular traffic in coordination with RoadmapCincy
 - Personal visit by a member of the team to affected businesses and building management
 - Attendance at DCI/Police Sector Meetings
 - Streetcar website: www.cincinnati-streetcar.com (all media and press releases – hosting transitioning to SORTA)

2.5. COMMUNITY INVOLVEMENT

- Monthly Construction Stakeholders Meeting
- Monthly Riverfront Joint Operations Task Force
- Social media (twitter @Cincy_Streetcar, City of Cincinnati Facebook page
<https://www.facebook.com/CincinnatiStreetcarOFFICIAL>)
- Through FLS and every other opportunity, the team continues to dialog with City departments and outside agencies and organizations to emphasize the general streetcar safety issue, the track access process, and any obligations that they may have under the OMIGA.
- Through FLS and internal meetings, the team continues to focus on specific emergency response, SOPS for working around the wire, training packages and communication protocols with CPD, CFD, EOC, Public Services, SORTA, and Cincinnati DOTE.
- Press releases and media availability continue for all testing with traffic alerts. Those have generated considerable interest.

2.6. MPD BILLINGS – DECEMBER 2015 REPORT

Bid Form Section	Total	Prev. Incurred	Nov (net ret)
Behind the Curb Work	\$1,456,894	\$147,987	
Central Parkway Median	\$116,455	\$120,736	
Civil, Roadway and Drainage	\$10,445,950	\$9,705,512	
Communication System	\$1,228,959	\$617,335	
Corrosion Control	\$354,682	\$322,761	
Misc. Items	\$5,075,000	\$4,374,873	
MOF Civil and Track	\$3,170,177	\$3,117,763	
MOF	\$8,744,492	\$8,628,939	
OCS Mainline	\$5,502,798	\$5,329,998	
Signal System Streetcar	\$669,588	\$669,368	
Streetcar Stop Shelters and Sitework	\$2,243,714	\$2,107,160	
Trackwork on Grade	\$13,018,686	\$12,978,733	
Trackwork on Structures	\$2,950,663	\$2,991,859	
Traction Power	\$6,566,003	\$6,044,974	
Traffic Signals and Lighting	\$4,793,179	\$4,154,860	
Water Main - Main Street	\$2,508,352	\$2,385,966	
Water Main - Walnut Street	\$2,046,457	\$1,780,106	
CO#1	\$492,933	\$310,674	
CO#2	\$100,000	\$52,861	
CO#3	\$359,745	\$493,750	
CO#4	\$265,211	\$170,514	
CO#5	\$637,108	\$637,108	
CO#6	\$313,782	\$128,782	
CO#7	\$67,630	\$62,984	
CO#8	\$19,974	\$194,744	
CO#9	\$176,923	\$176,923	
CO#10	\$135,272	\$0	
CO #11			
Totals:	\$73,460,628	\$67,707,270	\$782,319

3.0. VEHICLES

- Vehicle production and testing continues in Elmira
 - Unit #3 - final inspections underway
 - Unit #4 - carshell assembly complete , installations in progress
 - Unit #5 - carshell assembly complete, assembly progressing
- Integrated testing activities took place throughout December
 - Live wire test
 - TPSS tests
 - Noise & Vibration test
 - Ride & Comfort test

3.1. VEHICLES - SCHEDULE

- Post delivery testing and inspection underway on Unit #1 & 2
- Unit #3 and #4 expected early 2016
- CAF-projected dates for arrival of remaining vehicles as of October 23 (CAFCIN 1218)

Streetcar	Oct 23 Proposed Update
Unit #2	9-Dec-15
Unit #4	21-Jan-16
Unit #5	10-Feb-16

- Liquidated damages being withheld from CAF invoices.

3.2. DESIGN, PRODUCTION, TESTING ACTIVITIES



Streetcar loaded with barrels full of water to simulate a full passenger load

3.2. DESIGN, PRODUCTION, TESTING ACTIVITIES



Setting up the testing equipment for the noise and vibration tests

3.2. DESIGN, PRODUCTION, TESTING ACTIVITIES



Noise and vibration test equipment setup underway on Elm St,

4.0 BUDGET & EXPENDITURES

- Through December 31, 2015:
 - \$119,842,061 has been expended on the project (including Duke escrow)
 - \$23,961,116 remains encumbered against open contractual obligations on the project
- Major Contract Activity:
 - 11 change orders to the MPD construction contract have been issued totaling \$2,573,011
 - Two change orders to the CAF vehicle contract have been issued totaling \$0
 - See Appendix A for breakout of Contingency Usage



4.1 BUDGET VS. EXPENSES

Through 12/31/15

BUDGET - June 2013		EXPENSES 12/31/2015		
Budget Category	Base + Allocated Contingency	Expended	Encumbered	Expended + Encumbered
Pre-Development	\$ 1,313,786.00	\$ 1,264,628.13	\$ 49,157.87	\$ 1,313,786.00
Design	\$ 14,598,719.00	\$ 14,313,044.86	\$ 19,571.85	\$ 14,332,616.71
Real Estate	\$ 2,010,143.00	\$ 2,011,186.00	\$ -	\$ 2,011,186.00
Construction	\$ 52,511,908.33			
MOF	\$ 11,914,668.98			
Utilities (Project)	\$ 6,958,405.62	\$ 65,896,056.30	\$ 5,488,926.63	\$ 71,384,982.93
Utilities (3rd Party)	\$ 6,225,065.37	\$ 2,574,494.38	\$ 3,092,363.76	\$ 5,666,858.14
Vehicles	\$ 25,213,095.40	\$ 10,727,444.87	\$ 13,224,475.63	\$ 23,951,920.50
Fare Vending	\$ 550,000.00	\$ -	\$ -	\$ -
City Project Administration	\$ 4,441,476.27	\$ 3,445,442.44	\$ 260.00	\$ 3,445,702.44
SORTA Project Administration	\$ 2,100,000.00	\$ 1,139,564.10	\$ 860,435.90	\$ 2,000,000.00
Start-up	\$ 250,000.00	\$ -	\$ -	\$ -
Unallocated Contingency	\$ 4,991,010.00	\$ 3,470,200.13	\$ 1,225,924.50	\$ 4,696,124.63
Subtotal	\$ 133,078,277.97	\$ 104,842,061.21	\$ 23,961,116.14	\$ 128,803,177.35
Utilities (Duke Escrow)	\$ 15,000,000.00	\$ 15,000,000.00	\$ -	\$ 15,000,000.00
Grand Total	\$ 148,078,277.97	\$ 119,842,061.21	\$ 23,961,116.14	\$ 143,803,177.35

* Construction Expenditures include \$2.938 Million in unreleased retainage on MPD contract .
Vehicle Expenditures include \$410,344 in unreleased retainage on CAF contract

4.2 RISK/CONTINGENCY ITEMS

- CONSTRUCTION
 - Punch list (open construction items) requires completion before close out can occur – could require additional engineering support
- VEHICLES
 - Any further production issues, and/or difficulty closing open (punch list) engineering, testing, and quality items could delay delivery of remaining cars
 - Spare parts & special tools delivery, training still required
 - Could require additional engineering support from LTK
- ADDITIONAL CAPITAL EQUIPMENT, SPARE PARTS NEEDS
 - Start up process may identify additional equipment, spare needs



4.3. CONTINGENCY USAGE

Through 12/10/15

Budget Category	Contingency Budget	Completed Contingency Uses	Pending Contingency Uses	Estimated Contingency Uses	Contingency Remaining
ALLOCATED CONTINGENCY					
Pre-Development	\$ -	\$ -			\$ -
Design	\$ 202,370.96	\$ -			\$ 202,370.96
Real Estate	\$ -	\$ -			\$ -
Construction					
MOF	\$ 2,000,000.00	\$ 1,482,305.32	\$ 134,920.00	\$ -	\$ 382,774.68
Utilities (Project)					
Utilities (3rd Party)	\$ 77,207.23	\$ -			\$ 77,207.23
Vehicles	\$ 2,101,722.40	\$ 977,100.75			\$ 1,124,621.65
Fare Vending	\$ 50,000.00	\$ -			\$ 50,000.00
City Project Administration	\$ 190,800.63	\$ -	\$ 190,800.63		\$ -
SORTA Project Administration	\$ 100,000.00	\$ -			\$ 100,000.00
Start-up	\$ -	\$ -			\$ -
Subtotal	\$ 4,722,101.22	\$ 2,459,406.07	\$ 325,720.63	\$ -	\$ 1,936,974.52
UNALLOCATED CONTINGENCY					
Unallocated Contingency		\$ 1,385,418.50		\$ 223,538.00	
Construction		\$ 2,021,100.11		\$ 855,213.00	
City Project Administration	\$ 4,991,010.00		\$ 931,868.72		\$ (1,035,076.64)
Design		\$ 608,948.31			
Subtotal	\$ 4,991,010.00	\$ 4,015,466.92	\$ 931,868.72	\$ 1,078,751.00	\$ (1,035,076.64)
Utilities (Duke Escrow)	\$ -				\$ -
Grand Total	\$ 9,713,111.22	\$ 6,474,872.99	\$ 1,257,589.35	\$ 1,078,751.00	\$ 901,897.88

4.4 GRANT DRAWDOWN SUMMARY

Through 12/31/15

SOURCE	GRANT NUMBER	ALI CODE	Description	FEDERAL SHARE			
				Authorized	Drawn	Pending	Amount Remaining
Urban Circulator	OH-03-0303	12.79.00	City Project Admin.	\$ 1,453	\$ 1,453	\$ -	\$ -
		12.79.00	SORTA Project Admin.	\$ 1,388,545	\$ 877,126		\$ 511,419
		12.23.03	Construction	\$ 12,598,000	\$ 12,371,830		\$ 226,170
		12.13.20	Vehicles	\$ 11,002,000	\$ 7,606,846		\$ 3,395,154
Subtotal				\$ 24,989,998	\$ 20,857,255	\$ -	\$ 4,132,743
CMAQ	OH 95-X054	12.23.03	Construction	\$ 4,000,000	\$ 4,000,000		\$ -
Subtotal				\$ 4,000,000	\$ 4,000,000	\$ -	\$ -
Rail ROW Grant	OH-90-X265	13.73.00	Contingency	\$ 268,278	\$ 268,278		
Subtotal				\$ 268,278	\$ 268,278	\$ -	\$ -
TIGER 3	OH 79-0002	12.79.00	City Project Admin.	\$ 154,545	\$ 154,545	\$ -	\$ (0)
		12.79.00	SORTA Project Admin	\$ 211,453	\$ 34,434		\$ 177,019
		12.23.03	Construction	\$ 15,554,000	\$ 15,554,000		\$ (0)
Subtotal				\$ 15,919,998	\$ 15,742,980	\$ -	\$ 177,018
TOTAL				\$ 45,178,274	\$ 40,868,513	\$ -	\$ 4,309,761

* Budget revision on 9/16/15 moved \$4.998 M from Urban Circulator ALI 12.13.20 to 12.23.03

** Drawn + Pending = 90.5% of Federal grant funds



5.0. JOB SITE SAFETY

Safety Oriented-To date: 906

Safety Oriented-December: 1

Safety Orientations-December: 1

Total man-hours worked to date: TBD

Total man-hours worked without a lost time accident: TBD

Lost Time Accidents-To date: 3

Lost Time Accidents-December: 0

Incidents-To date: 165

Incidents-December: 0

6.0. SORTA ACTIVITIES



Carolyn Flowers, Senior Advisor to Acting Administrator of the Federal Transit Administration Therese McMillan visits the MOF and tours the streetcar after speaking at State of Metro - 2015

6.1. STREETCAR SYSTEM TURNOVER

- SORTA and Transdev staff continue to receive OEM operations and maintenance training on the various systems.
- Transdev mobilization continues with the addition of a working foreman of vehicle maintenance and the first streetcar service supervisor.



6.2. OPERATIONS & MAINTENANCE PLANNING

- Transdev submitted the second and third round of standard operating procedures (SOPs). A final round of SOPs will address unusual operating conditions, but generally all major SOPs are complete. SORTA and Transportation Resource Associates continue to review the SOPs. SORTA SOPs are complete.
- The first draft of the City of Cincinnati SOPs have been completed.
- The Operating Rulebook draft has been submitted by Transdev and is under review.
- The Streetcar Integrated Test Plan has been updated and is under review by TRA prior to submittal to FTA and ODOT/SSO.



6.3. FARE EQUIPMENT

- SORTA will provide transportation of the TVM units from Bond Hill Division to the streetcar stops prior to installation. Additionally SORTA will provide protective covering of the TVM units after installation until revenue service begins.
- Installation of the TVM units remains on schedule for March 2015 by MPD.



6.4. RAIL ACTIVATION

- The SORTA Rail Activation Committee (RAC) did not meet in December due to the Holiday break. The RAC meetings will be restructured starting in January to continue
- The Integrated Test Team (ITT) meets on a weekly basis. The focus of the meeting is a master schedule that integrates all of the testing, commissioning and training activities. The meeting is also used to review open track access permits that may impact testing activities and safety.



6.5. SAFETY & SECURITY CERTIFICATION

- The Safety and Security Review Committee approved the Vehicle Design Audit documentation.
- The Fire Life Safety and Security Committee is meeting bi-weekly. The committee took a holiday break and will resume activities in January 2016.
- All requested documentation was submitted and confirmed received on-time to the consultant for the Federal Transit Administration (FTA) Transit Safety Office (TSO) for the upcoming Safety and Security Readiness Review (SSRR) during the second week of January 2016. Copies were also sent to the FTA Region 5 office, the FTA Project Management Oversight Consultant (PMOC) and the Ohio Department of Transportation (ODOT) State Safety Oversight office and the ODOT consultants.



6.6. ADVERTISING / SPONSORSHIPS

- The SORTA streetcar advertising vendor, Cincinnati-based Ad Vehicles, has developed marketing materials for the sale of the system sponsorships and advertising. This includes brochures and a video.



6.7. MARKETING / EDUCATION

- The “Be(e) Streetcar Safe” campaign continues with the transition of the stakeholder meetings to SORTA.
- Efforts around parking outreach have continued, with an updated, “stricter” parking warning flyer developed.
- SORTA is working on the launch of the new streetcar web site and other preparations for the testing phase communications and grand opening.



6.8. UPCOMING SORTA BOARD OF TRUSTEES ACTIONS

- Approval of contract between SORTA and Downtown Cincinnati Improvement District governing streetcar operations and maintenance funding from the Voluntary Tax Incentive Contribution Agreement (VTICA) (anticipated February 2016)
- Approval of Amendment 7 to the Intergovernmental Agreement (IGA) between SORTA and the City of Cincinnati to provide capital funding for the purchase of tools and other “make ready” start-up equipment in preparation for streetcar operations (February 2016)
- Approval of Fare and Service Equity Analysis/Title VI review including public hearings and any associated service changes (February 2016);



6.8. UPCOMING SORTA BOARD OF TRUSTEES ACTIONS

- Approval of revised Streetcar Operating Hours (February 2016);
- Approval of draft Streetcar First Year Operations and Maintenance Budget and Authorization to transmit to Cincinnati City Council for Approval (February 2016)



6.9. STREETCAR VEHICLE

- Several type tests were conducted on the streetcar vehicle. The noise and vibration tests and the ride quality tests were conducted by CeTest, a subsidiary of CAF. The tests required a street closure and Elm Street between 14th and Liberty was closed between rush hours and used as a test track. The vehicle performed well and achieved over 38 mph top speed.
- For the final two weeks of December CAF began their holiday break and the vehicles were stored inside of the MOF.



6.11. WHEEL TRUING MACHINE

- Delta Manufacturing will commission and provide training on the WTM during the first week of February 2016.



7.0. DBE & INCLUSION

Workforce Inclusion Compliance

- City requirements under the contract establish workforce inclusion goals for MPD as well. The City requirements establish inclusion goals for the contractor's aggregate workforce in Hamilton County throughout the term of the contract. The chart below summarizes hours worked on the contract (Actual) as well as the countywide workforce inclusion goals.
- With the completion of construction and only minor punch list and testing support remaining, these totals are unlikely to change very much.

Minority & Female Utilization		
	<u>Actual</u>	<u>Goal</u>
Minority Hours	18.7%	11.9%
Female Hours	3.7%	6.9%
Minority Female	68.2%	50.0%

8.0 FEDERAL OVERSIGHT ACTIVITIES

- All activities undertaken by the project have to date met Federal Transit Administration rules and regulations.
- The City and SORTA each have responsibility for ensuring that the project adheres to FTA guidelines governing such areas as procurement, project management, financial management, operations and maintenance, Buy America, and safety and security certification.
- Project staff responded to various requests for information from FTA and the PMOC throughout the reporting period.
- The Quarterly Review Meeting (QRM) took place in Cincinnati on December 2, 2015. The next QRM meeting will take place on February 19, 2016, in Cincinnati.
- The next monthly meeting/teleconference with the FTA Regional Office, SORTA, the City and the PMOC will take place on January 14, 2016.
- No significant action items resulted from the meeting.



Appendix B
Change Orders, Contingency Allocations

Through: December 10, 2015

ID	Budget Category	Source	Contract	Contingency Usage Type	Contingency Usage #	Date	Description	Status
1	Construction	Base	MPD	Change Order	1	8/2/2013	Labor, bonding, and materials costs associated with delay in contract NTP date.	Complete
2	Construction	Unallocated Contingency	MPD	Change Order	2	1/14/2014	Delay costs appropriated by City Council for Council-mandated "pause"	Complete
3	Construction	Unallocated Contingency	MPD	Change Order	3	1/28/2014	Adds for additional potholing and prevailing wage; credits for sewer manhole redesign and removal of communication conduits	Complete
4	Construction	Allocated Contingency	MPD	Contingency Allocation	1	11/8/2013	Empty conduit crossings; non-perform test station	Complete
5	Construction	Allocated Contingency	MPD	Contingency Allocation	2	11/8/2013	GCWW field conditions	Complete
6	Construction	Allocated Contingency	MPD	Contingency Allocation	3	12/30/2013	Mortar for granite pavers	Complete
7	Construction	Allocated Contingency	MPD	Contingency Allocation	4	12/30/2013	Additional abatement at MOF site	Complete
8	Construction	Allocated Contingency	MPD	Contingency Allocation	5	1/30/2014	Cast iron detectable warning; add. Geopiers; dielectric membrane; MOF conditions, others	Complete
9	Unallocated Contingency	Unallocated Contingency	Thelen	Certification	N/A	10/21/2013	Materials testing	Complete
10	Unallocated Contingency	Unallocated Contingency	KPMG	Certification	N/A	12/11/2013	City Council-mandated audit costs	Complete
11	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	N/A	8/30/2013	Schedule review support	Complete
12	Construction	Unallocated Contingency	MPD	Change Order	4	4/7/2014	Revised underground conduit crossings: revised OCS poles; revised Trapeze allowance; MOF vehicle APS changes;	Complete
13	Construction	Unallocated Contingency	MPD	Change Order	5	4/21/2014	City Council-mandated Delay Claim	Complete
14	Design	Unallocated Contingency	PB	Certification	N/A	8/25/2014	Additional construction support work needed	Complete
15	Construction	Unallocated Contingency	MPD	Change Order	6	7/22/2014	Water Works design changes	Complete
16	Construction	Allocated Contingency	MPD	Contingency Allocation	6	4/24/2014	Misc. MOF mods, telecom conduit for MOF, GCWW force acct., Cent. Pkwy. Irrigation	Complete
17	Construction	Allocated Contingency	MPD	Contingency Allocation	7	5/9/2014	WTM conduit; Findlay dielectric membrane; Elm St. mill	Complete
18	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	N/A	7/22/2014	Task 4 - Schedule review support through MOF completion	Complete
19	Unallocated Contingency	Unallocated Contingency	Duke Energy	Certification	N/A	7/31/2014	Electrical service installation costs	Complete
20	Construction	Allocated Contingency	MPD	Contingency Allocation	8	7/22/2014	basement encroachment, cellar door, GCWW force acct., manhole mods	Complete
21	Construction	Allocated Contingency	MPD	Contingency Allocation	9	10/1/2014	various MOF, sewer, GCWW, other revisions,	Complete
22	Construction	Allocated Contingency	MPD	Contingency Allocation	10	11/17/2014	Contingency Allocation #10	Complete
23	Unallocated Contingency	Unallocated Contingency	DELTA Mfg.	Certification	N/A	11/17/2014	Wheel Truing Machine	Complete
24	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Submitted ECI's from MPD	Pending
25	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Estimated ECI's from MPD	Pending
26	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	TPSS# 2 and 3 screenwall changes	Estimated
27	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Spare Switch Points	Estimated
28	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	MOF Cameras, TPSS Wiring	Estimated
29	City Project Administration	Unallocated Contingency	City	Certification	N/A	TBD	City- Additional Staff Time	Pending
30	City Project Administration	Allocated Contingency	City	Certification	N/A	TBD	City- Additional Staff Time	Pending
31	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	MOF Telecom wiring	Estimated
32	Construction	Allocated Contingency	MPD	Contingency Allocation	N/A	TBD	Ford Force Account	Estimated
33	Vehicles	Allocated Contingency	LTK	Certification	N/A	TBD	LTK - Additional Staff Time	Complete

Appendix B
Change Orders, Contingency Allocations

Through: December 10, 2015

ID	Budget Category	Source	Contract	Contingency Usage Type	Contingency Usage #	Date	Description	Status
34	Unallocated Contingency	Unallocated Contingency	Duke Energy	Certification	N/A	TBD	Duke hookup costs/utilities	Estimated
35	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Additional Quantities Needed	Estimated
36	Unallocated Contingency	Unallocated Contingency	TBD	Certification	N/A	TBD	Misc. MOF fit out needs, WTM mods	Estimated
37	Construction	Unallocated Contingency	TBD	Certification	N/A	TBD	Bike Racks, pervious concrete	Estimated
38	Unallocated Contingency	Unallocated Contingency	Transystems	Certification	Task 5	2/12/2015	Schedule review support Task 5	Complete
39	Construction	Allocated Contingency	MPD	Contingency Allocation	11	1/7/2015	Partial depth repair, handrail on Race, misc. items	Complete
40	Construction	Unallocated Contingency	MPD	Change Order	7	3/18/2015	Lifting Jacks settlement, Owner-supplied Equipment mod., TPSS negative drainage conduit	Complete
41	Construction	Unallocated Contingency	MPD	Change Order	TBD	TBD	Station Stop mods for TVM installation	Estimated
42	Unallocated Contingency	Unallocated Contingency	TBD	TBD	TBD	TBD	12th & Race Overhead Light modification	Estimated
43	Construction	Unallocated Contingency	MPD	Change Order	8	3/20/2015	TPSS Screenwall changes	Complete
44	Construction	Allocated Contingency	MPD	Contingency Allocation	12	TBD	MOF prox readers, wayside power changes Ford FA, Type 3 waterproofing, other misc. field issues	Complete
45	Unallocated Contingency	Unallocated Contingency	Thelen	Certification	N/A	3/24/2015	Additional materials testing	Complete
46	Construction	Unallocated Contingency	MPD	Change Order	N/A	TBD	Central Parkway /Walnut OCS conflicts	Estimated
47	Construction	Unallocated Contingency	MPD	Contingency Allocation	N/A	TBD	Traffic Boom Arm Bolt Pattern conflict	Complete
48	Construction	Allocated Contingency	MPD	Contingency Allocation	13	TBD	special concrete finishing on Main, wayfinding on 2nd, MOF tread ladder, Oil/Water separator, additional sewer manhole, ped pole mods, Ford FA through Jan 2015	Complete
49	Construction	Allocated Contingency	MPD	Contingency Allocation	14	TBD	capped manhole, utility conflict modification, subway OCS survey, Ford FA, various MOF design errors, shelter damage	Complete
50	Construction	Unallocated Contingency	MPD	SORTA IGA Amend #6	N/A	6/19/2015	MOF office equipment, Trapeze Wireless LAN	Complete
51	Fare Vending	Base	MPD	Change Order	10	TBD	TVM Enclosures	Complete
52	Construction	Unallocated Contingency	MPD	Change Order	9	TBD	MOF & TPSS #1 SCADA internet wiring; MOF furniture; MOF WTM Mods; MOF cameras	Complete
53	Construction	Allocated Contingency	MPD	Contingency Allocation	15	TBD	TPSS #1 FRE conduit, Pavers at TPSS #2, MOF pole mods, TPSS 1 electrical cabinet	Complete
54	Construction	Allocated Contingency	MPD	Contingency Allocation	16	TBD	Modify traffic booms in CBD (ECI 221); MLB All Star Game costs (ECI 222); Reset temp water valve (ECI 245); Fill vault at 6th & Main (ECI 249);Temp signals & signs (ECI 244)	Complete
55	Construction	Allocated Contingency	MPD	Contingency Allocation	17	TBD	ECI's 160,193,201,205,209,226,227,248,268	Complete
56	Construction	Unallocated Contingency	MPD	Change Order	11	TBD	ECI's 39,188,212,215,233,234,237,238,242,250,254,259,260,262,269,270,271,273,276	Complete